

What is claimed is:

1           1. A compact cellular phone in which a pair of housings  
2   formed in an approximate flat shape is foldably connected by using  
3   a hinge, said compact cellular phone comprising:

4           two planar antennas provided to said pair of housings,  
5   respectively, so that a highly sensitive surface of each of said  
6   two planar antennas is directed outward in a state in which said  
7   compact cellular phone is closed.

1           2. The compact cellular phone according to claim 1, wherein  
2   an interval between said two planar antennas provided to said pair  
3   of housings is equal to or wider than a width of a human palm in  
4   a state in which said compact cellular phone is open.

1           3. The compact cellular phone according to claim 1, wherein  
2   said two planar antennas are provided outermost inside said pair  
3   of housings, respectively, in a state in which said compact  
4   cellular phone is closed.

1           4. The compact cellular phone according to claim 1, wherein  
2   said two planar antennas are two planar inverse F-type antennas  
3   or two patch antennas.

1           5. The compact cellular phone according to claim 1, wherein  
2   when said compact cellular phone is used while being closed in  
3   a waiting state, both of said two planar antennas or either one  
4   of said two planar antennas is used to send or receive, and when  
5   said compact cellular phone is used while being open in a

6 communication state, one of said two planar antennas, which has  
7 the better transmission state, is selected to send and receive.

1           6. The compact cellular phone according to claim 5, wherein  
2 by detecting and evaluating an impedance change and a physical  
3 quantity of a reflective wave caused by said impedance change on  
4 an electric-power transmission path provided inside said compact  
5 cellular phone, one of said two planar antennas, which has  
6 preferred transmission characteristics, is determined, selected,  
7 and then used.

1           7. The compact cellular phone according to claim 2,  
2 wherein said two planar antennas are provided outermost inside  
3 said pair of housings, respectively, in a state in which said  
4 compact cellular phone is closed.

1           8. The compact cellular phone according to claim 2, wherein  
2 said two planar antennas are two planar inverse F-type antennas  
3 or two patch antennas.

1           9. The compact cellular phone according to claim 2, wherein  
2 when said compact cellular phone is used while being closed in  
3 a waiting state, both of said two planar antennas or either one  
4 of said two planar antennas is used to send or receive, and when  
5 said compact cellular phone is used while being open in a  
6 communication state, one of said two planar antennas, which has  
7 the better transmission state, is selected to send and receive.

1           10. The compact cellular phone according to claim 9,

2 wherein by detecting and evaluating an impedance change and a  
3 physical quantity of a reflective wave caused by said impedance  
4 change on an electric-power transmission path provided inside  
5 said compact cellular phone, one of said two planar antennas,  
6 which has preferred transmission characteristics, is determined,  
7 selected, and then used.